University of California
Lawrence Livermore
National Laboratory

LLNL Library of the Future Overview

(http://www.llnl.gov/llnl_only/tid/lof/about-LoF/LoF-overview/LoF.html)

Welcome to the LLNL Library of the Future initiative overview presentation. The following suggestions may help you get more out of the presentation:

- The first line ("headline") of each page of the presentation links to the next page in the presentation. Click on the headlines to advance through the presentation in a linear fashion.

- To try an example, click on the word "example", then follow the directions given.

Click here to begin the presentation.

For assistance

Last updated on March 27, 1995, by Tom Brengle
If you have technical questions about this page, contact:
brengle1@llnl.gov -- Tom Brengle

and **LLNL Disclaimers**
Administrative Information

An Overview of LLNL's Library of the Future Initiative

Rev. 3/27/95

LLNL Library of the Future

- **The Library of the Future initiative**

- **Near term objectives**

- **Who else is doing this?**

- **What will this look like?**

- **How are we doing it?**

- **Benefits vs. Cost?** *(will be provided later)*

- **Futures**

- **Acknowledgements**

The Library of the Future initiative

- [A little history](#)

- [Genesis of the initiative](#)

- [Overall goals of the initiative](#)

- [Expected benefits](#)

- [The FY94 project](#)

A little history

- A few years ago, the Lab's Library Advisory Committee chartered a technology subcommittee to investigate opportunities to utilize technology to improve the accessibility of information resources for Lab information workers

- This subcommittee also recognized early on the value of Lab-owned information resources to information workers outside the Lab

- The subcommittee and Library staff did extensive research, and pursued a number of pilot projects

Genesis of the initiative

- Ideas generated through these efforts became known collectively as the "Library of the Future", or LoF

- An outcome of this process, in part, was a vision for the LoF:

"A library in which an end user can type 'Tell me about...' and get, on the desktop, the information sought, rapidly, seamlessly, layer by layer, from sources inside and outside the Laboratory - or the user can get an information specialist to do it."

Overall goals of the initiative

- **To make unclassified unlimited "public domain" Lab information accessible electronically to Lab employees and other Internet users**

- **To make other limited access information available electronically to Lab employees as appropriate**

- **To make a major contribution to development of the Information Superhighway / National Information Infrastructure**

Expected   benefits

- Lab reports available sooner and to a wider audience

- Reduce the number of paper copies printed and stored

- Lab work available world-wide -> more visibility for Lab and its scientists

- Reports and papers electronically searchable

- Reports much more accessible to Lab users (not kept in classified building)

- Part of distribution can be done electronically -> cuts printing costs

- Saves storage space and costs

The FY94 project

- **$200K of "one-time" funds were allocated in mid-March**
    - **intended to support LoF start-up efforts to be completed by September 30**
    - **focus is on what's do-able in that timeframe**

- **A project plan to pursue specific objectives was first released in May (current version is dated July 6)**

Near term objectives

- [October 1 objectives](#)

- [February 1 objective](#)

October 1 objectives

- **Establish necessary "business" processes within TID to support submission of new documents in electronic form**
    - electronic review and release
    - document conversion
    - print-on-demand

- **Establish the "electronic library"**
    - "repository" for electronic documents
    - integrated user interface for browsing and searching
   - automated collection management tools

October 1 objectives (con't.)

- Begin conversion of the existing reports collection
  - about 77,000 reports and preprints need to be scanned and OCRed
  - about 3000 documents have been scanned and are awaiting conversion to Internet accessible form
    (more detail)
  - we are very interested in copying available electronic versions of these documents

- Handle TID-produced documents electronically

- Electronically handle documents from early supporters

LLNL Library of the Future Statistics

LLNL is currently in the process of scanning the documents in its technical reports collection, converting them to PDF, and making them available through the LLNL web server. There are approximately 77,000 reports in the collection.

Progress of Document Scanning
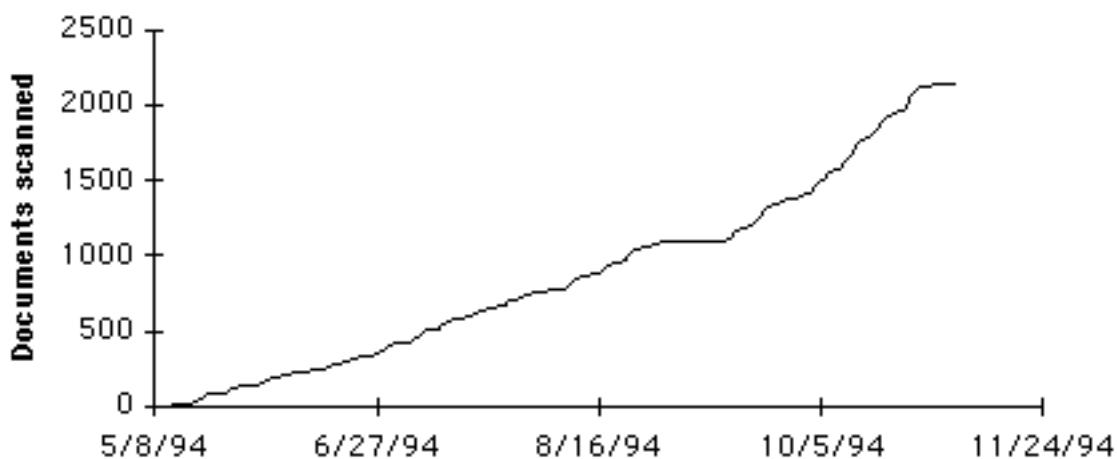
Progress of Document Scanning
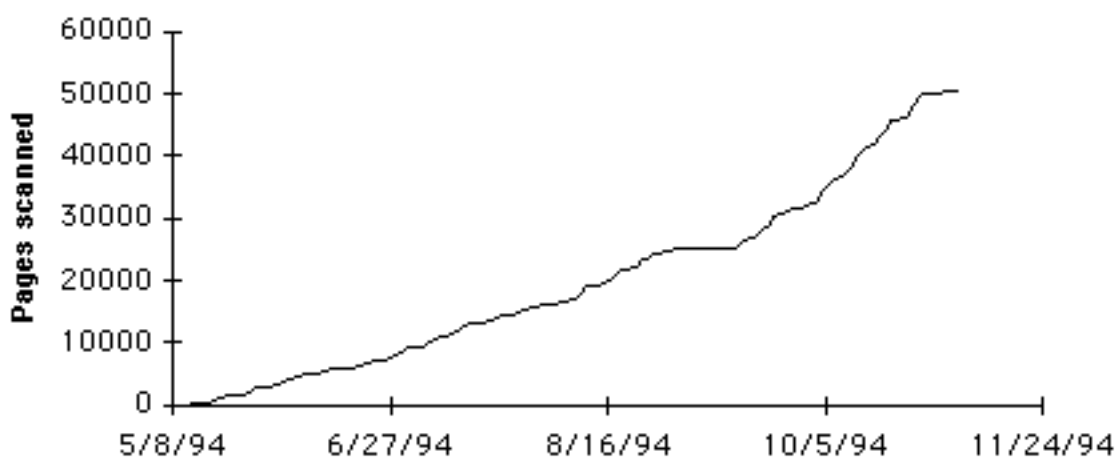
For assistance

February 1 objective

- **Complete implementation of infrastructure and processes to handle new documents in electronic form**

Who else is doing this?

- **Many other organizations are pursuing a similar path**

- **There are many different strategies**

Many other organizations are pursuing a similar path

- **Government**
  - **Argonne National Laboratory**
  - **Los Alamos National Laboratory**
  - **Internal Revenue Service**

- **Academia**
  - **many universities**

- **Industry**
  - **Apple Computer**
  - **Lockheed**

There are many different strategies

- We think we have chosen one with a lot of "bang for the buck"

What will this look like?

- [The Library patron's view](#)

- [The electronic document submitter's view](#)

- [The paper document submitter's view](#)

- [For TID-produced documents](#)

The Library patron's view

- **Macintosh, Windows, or Unix computers may be used**

- **"Point & click" interface will allow navigation through collection**

- **For searching,**
  - **a simple keyword search interface will be provided initially**
  - **several more sophisticated searching tools will be added later**

- **On patron's computer, he or she may:**
  - **view documents (original "look & feel" will be preserved)**
  - **print documents on a local printer, or order printing through TID's Print Plant**
  - **download documents**

- *Note: TCP/IP access to Open Labnet will be required*

The electronic document submitter's view

- **If document is already in desired electronic format:**

    o **customer submits electronic file(s) to Publication Services**

    o **Publication Services handles review and release**

    o **Publication Services notifies customer when releases are obtained**

    o **Publication Services forwards electronic file(s) to Library**

    o **customer can**
        □ **send document to Print Plant, or**
        □ **have Print Plant access electronic file from Library**

The electronic document submitter's view (con't.)

- **If document is in an alternate electronic format:**

    - **customer submits electronic file(s) to Publication Services**

    - **Publication Services does conversion or sends file(s) to Electronic Services for conversion**

    - **after conversion, the process continues with review and release as before**

The paper document submitter's view

- **Customer submits paper copy to Publication Services**

- **Publication Services handles review and release**

- **Publication Services notifies customer when releases are obtained**

- **Publication Services offers several options for providing an electronic version**
  - **provide electronic version in desired format within a reasonable time, or**
  - **provide electronic version in alternate format within a reasonable time, or**
  - **have TID scan in the paper version**

- **Publication Services forwards electronic file(s) to Library**

The paper document submitter's view (con't.)

- **After February 1, Publication Services will accept documents in electronic form**

For TID-produced documents

- **TID will create the electronic file(s) for TID-developed documents after the final page layouts are prepared**

How are we doing it?

- **World Wide Web (WWW)**

- **Adobe Acrobat**

- **Scanning/OCR for input of paper documents**

- **Print-on-demand through TID Print Plant**

- **Institutional server**

World Wide Web (WWW)

- **Supports "point & click" navigation**
  - ("Latest additions" example)
  - ("Browse by date" example)

- **Recent versions support "forms" for information entry**
  - **can be used for entry of search criteria** (example)

- **Uses "helper" applications to handle various multimedia types**

- **Patrons can use any WWW client software package, including Mosaic**
  - **Mosaic is available for Macintosh, Windows and Unix**
  - **Mosaic is freeware**
  - **others, like MacWeb from MCC, are becoming available**

- **The HyperText Markup Language (HTML) has limited ability to format display of documents**

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

LoF point & click example – Latest additions

This example shows how "point & click" can be used to navigate the electronic document collection using the "Latest additions" page. To view documents accessed in this example, you must have Acrobat Reader installed and linked to your Web browser as a helper application to view PDF files. **After reading these directions, click as shown below to begin the example.** On subsequent pages, do the following:

- Click on "Browse the latest additions to the electronic collection"
- Click on any highlighted accession number
- Click on "View this entire document as PDF"
- When you are finished viewing the document, use your Web browser's "back up" feature to return to the "World Wide Web" page

Click here to begin the example.

http://www.llnl.gov/llnl_only/tid/lof_home.html

LLNL Library of the Future

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LLNL Library of the Future

Welcome!

What's New

Click below to:

- Browse the latest additions to the electronic collection
- Browse the contents of the electronic collection
- Search the contents of the electronic collection (*under construction*)

http://www.llnl.gov/llnl_only/tid/lof/misc/Latest_additions.html

Latest Additions

Latest Additions to the LLNL Library of the Future

Here are the 67 documents most recently added to the electronic collection. To access, click on the highlighted accession number following the citation. This page was updated on Wednesday, February 1, 1995 at 10:41 PST.

"Magnetic and high-pressure effects on the elastic and structural properties of iron," Soderlind, P; Moriarty, J A. UCRL-JC-119524-ABS, December 3, 1994. (900052)

"First-principles interatomic potentials for transition-metal aluminides," Moriarty, J A; Widom, M. UCRL-JC-119523-ABS, December 3, 1994. (900051)

"Atomic and electronic structure of cubic and orthorhombic PbF2," Klepeis, J E; Lorenzana, H E; Van Schilfgaarde, M. UCRL-JC-119518-ABS, December 3, 1994. (900050)

"Linear response calculations of Tc," Barbee, T W. UCRL-JC-119516-ABS, December 3, 1994. (900049)

"Measurement of the energy scattering time in GaAs and low-temperature grown GaAs using the probe-probe method," Bello, A F; Erskine, D J; Fochs, S N; Perry, M D; Emanuel, M A; Ditmire, T R; Radousky, H B; Mariella, R P

Accession number: 900051

Title: First-principles interatomic potentials for transition-metal aluminides

Primary author(s): Moriarty, J A; Widom, M.

Report number: UCRL-JC-119523-ABS

Date: December 3, 1994

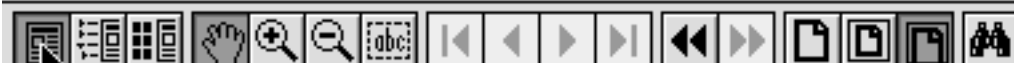- View this entire document as PDF (11 Kbytes)
- Order printing

For assistance

LLNL Disclaimer

This is the
"Citation Action Page"

First-principles Interatomic Potentials for Transition-Metal Aluminides

J.A. Moriarty
Lawrence Livermore National Laboratory

M. Widom
Carnegie Melon University

The first-principles generalized pseudopotential theory (GPT) of transition-metal (TM) interatomic potentials [1] has been successfully extended to binary systems, including the aluminides TM_xAl_{1-x}. In general, the total-energy functional involves a volume term, central-force pair potentials, and angular-force many-body potentials, which are both volume and concentration dependent and include all sp-d and d-d interactions within LDA quantum mechanics. Current

First-principles Interatomic Potentials for
Transition-Metal Aluminides

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The first-principles generalized pseudopotential theory (GPT) of transition-metal (TM) interatomic potentials[1] has been successfully extended to binary systems, including the aluminides $TM_X Al_{1-X}$. In general, the total-energy functional involves a volume term, central-force pair potentials, and angular-force many-body potentials, which are both volume and concentration dependent and include all *sp-d* and *d-d* interactions within LDA quantum mechanics. Current applications have emphasized the structural energetics of aluminum-rich $3d$ intermetallics, which appear to be well described at the pair-potential level, without angular forces. A case of special interest is the phase diagram of $Co_X Al_{1-X}$ which has recently been studied via model pair potentials[2] and *ab initio* electronic-structure calculations.[3] Preliminary GPT results reverse the incorrect prediction of a stable $Al_{12}W$ structure by the model potentials and also show good agreement with the electronic-structure results. This and other available applications will be discussed as time permits.

[1]J.A. Moriarty, Phys. Rev. B **38**, 3199 (1988).
[2]R. Phillips, et. al, Phys. Rev. B **49**, 9322 (1994).
[3]S. ögüt and K.M. Rabe, Phys. Rev. B **50**, 2075 (1994).

LoF Point & Click Navigation Example – Browse by Date

| Back | Forward | Home | Reload | Images | Open | Print | Find | Stop |

LoF point & click example – Browse by date

This example shows how "point & click" can be used to navigate the electronic document collection using the "Browse by date" pages. To view documents accessed in this example, you must have Acrobat Reader installed and linked to your Web browser as a helper application to view PDF files. **After reading these directions, click as shown below to begin the example.** On subsequent pages, do the following:

- Click on "Browse the contents of the electronic collection"
- Click on "by date"
- Click on any highlighted year
- Click on any highlighted month
- Click on any highlighted accession number
- Click on "View this entire document as PDF"
- When you are finished viewing the document, use your Web browser's "back up" feature to return to the "World Wide Web" page

Click here to begin the example.

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Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

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LLNL Library of the Future

Welcome!

What's New

Click below to:

- Browse the latest additions to the electronic collection
- Browse the contents of the electronic collection
- Search the contents of the electronic collection *(under construction)*

http://www.llnl.gov/llnl_only/tid/lof/browse/Browse_LoF.html

Browse the electronic collection

| Back | Forward | Home | Reload | Images | Open | Print | Find | Stop |

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LLNL Library of the Future

Browse the electronic collection:

- by date
- by accession number

For assistance

Last updated on Monday, March 6, 1995, by Tom Brengle
If you have technical questions about this page, contact:
brengle1@llnl.gov -- Tom Brengle

Browse by Date

| Back | Forward | Home | Reload | Images | Open | Print | Find | Stop |

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Browse by Date

154 documents are in the electronic collection.

- 1995 (50 documents)
- 1994 (103 documents)
- 1993 (1 documents)

For assistance

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

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LLNL Library of the Future

Browse by Date: 1995

50 documents completed during 1995 are in the electronic collection.

- March (11 documents)
- February (30 documents)
- January (9 documents)

For assistance

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

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LLNL Library of the Future

Browse by Date: March 1995

11 documents completed during March 1995 are in the electronic collection. To access, click on the highlighted accession number following the citation.

"Estimation of the spatial and temporal covariances of Mt. Pinatubo aerosol extinctions from SAGE-II and CLAES measurements," Grant, K. E; Kuczmarski, T. UCRL-JC-120419-ABS, 1 pg., March 1, 1995. (900111)
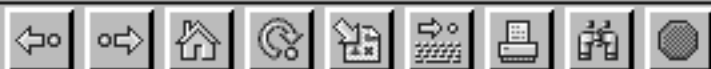
"Artificial neural network prediction of groundwater remediation: training evolution and optimization benchmarking," Rogers, L; Johnson, V. UCRL-JC-120415-ABS, 1 pg., March 1, 1995. (900110)

LoF Simple Search Example

LoF simple search example

This example shows a simple implementation of a search facility. **After reading these directions, click as shown below to begin the example.** On subsequent pages, do the following:

- Click on "Search LLNL News Releases"
- Enter search keywords, for example "Director Tarter"
- Click on "Submit Query"
- Click on the title of a news release to view
- When you are finished viewing the news release, use Mosaic's "Recent" feature to return to the "World Wide Web" page

Click here to begin the example.

http://www.llnl.gov/PAO/lab_news.html

Lab News
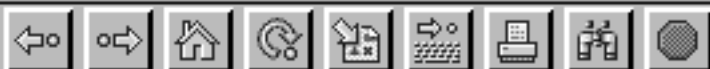
The Lab in the News

What's New

Galvin Report

Task Force on Alternative Futures for the Department of Energy National Laboratories (Galvin Report)

Response to the Galvin Report by LLNL Director Bruce Tarter

Recent News Releases

- Search LLNL News Releases
- February '95

http://www.llnl.gov/PAO/NewsRelease.html

WAISGATE (WEB <--> WAIS gateway) provided by WAIS Inc.

NewsRelease (see description)

Maintainer: wais@wais.llnl.gov, **Cost:** 0.00, **Cost unit:** :free

Complete text search terms: Director Tarter   [**Submit Query**]

Description

```
WAIS Database created with WAIS Inc. 2.0.0
on Jan 10 12:10:35 1995 by root@aisins
There are no fields in this database.

Index Of LLNL News Releases.
Contact LLNL Public Affairs Office for More information.
```

Search of NewsRelease

Results from running query with: Director Tarter

Tarter.gif (GIF)
  Score: 1000, Bytes: 265994 Add Document to Query for Relevance Feedback: ☐

Director Appt. (TEXT)
  Score: 947, Bytes: 4813 Add Document to Query for Relevance Feedback: ☐

Director Appt. (TEXT)
  Score: 947, Bytes: 4813 Add Document to Query for Relevance Feedback: ☐

Tarter announcement (TEXT)
  Score: 933, Bytes: 3477 Add Document to Query for Relevance Feedback: ☐

DIRECTOR NAMED FOR LIVERMORE LABORATORY (HTML)
  Score: 921, Bytes: 5707 Add Document to Query for Relevance Feedback: ☐

Director Appt.

Public Affairs Office

SOURCE: Jeff Garberson
FOR IMMEDIATE RELEASE
Work: (510) 423-3125
December 7, 1994
NR-94-12-07

(Note: An identical announcement is being released today by the
University of California President's Office.)

DIRECTOR NAMED FOR LIVERMORE LABORATORY

C. Bruce **Tarter**, acting **director** of the Lawrence Livermore National
Laboratory since last May, today was appointed **director** of the Laboratory by
the University of California, which manages the facility for the U.S.
Department of Energy (DOE).

Acting on the recommendation of UC President J. W. Peltason, the UC
Board of Regents approved **Tarter**'s appointment, effective immediately, in a

Adobe Acrobat

- **Acrobat Portable Document Format (PDF)**
  - **preserves the original "look and feel" of a document**
  - **eliminates the font portability problem**
  - **is "network friendly"**
  - **can compress text and images**
  - **is portable across Macintosh, DOS, Windows, and Unix**

- **Acrobat Reader is available for Macintosh, DOS, Windows and Unix**

- **Mosaic can use Acrobat Reader as one of its "helper" applications**

- **Printing of PDF documents at the patron's local PostScript printer is supported by Acrobat Reader**

- **Acrobat Reader is freeware**

Converting a document to PDF

Applications

Chooser Options

LaserWriter 8

PSPrinter

PDFWriter

Normal Process

Printed Pages

Best Path

PostScript File

Distiller

Portable Document Format (PDF) File

Quick & Dirty

Portable Document Format (PDF) File
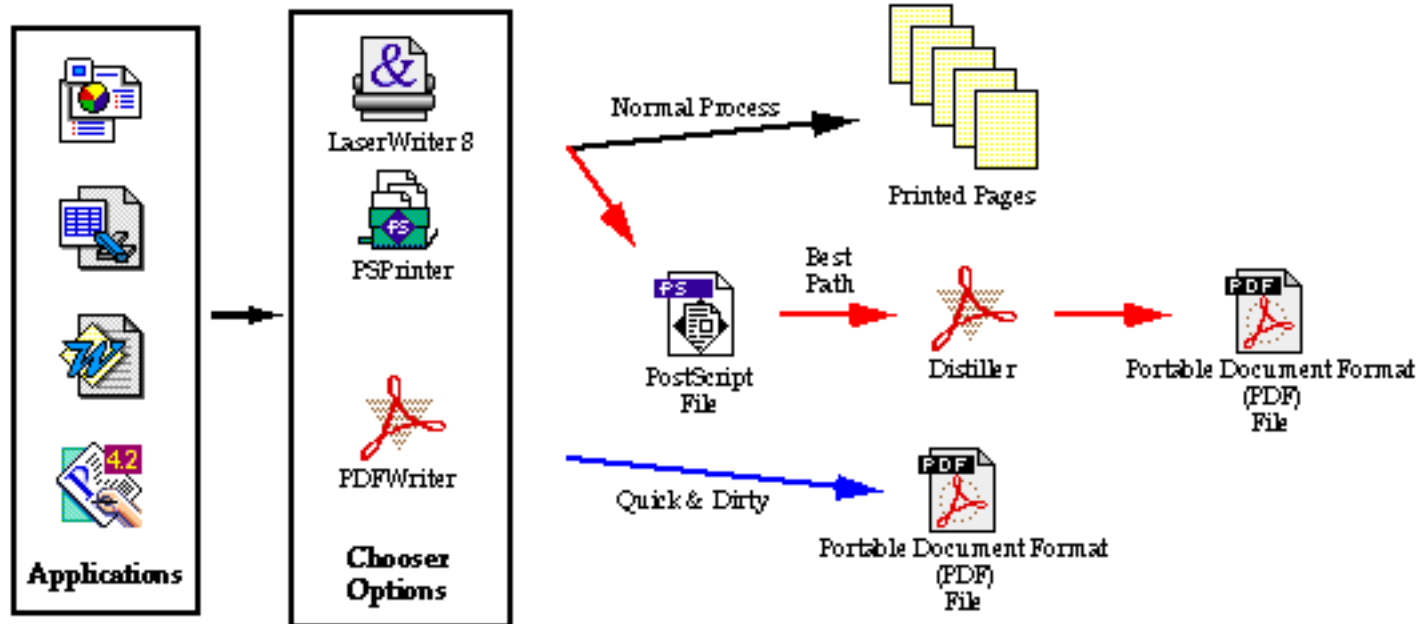
Scanning/OCR for input of paper documents

- **The Library is**
  - scanning the paper documents at 300 dpi
  - storing the page images in TIFF (Modified Group 3) format
  - using OCR to recover the text from the images
  - saving the text in ASCII format

- **An automatic process is being developed to convert TIFF images into Acrobat PDF**

Print-on-demand through TID Print Plant

- **An on-line form is available to electronically order printing through the Print Plant**(example)

- **The form automatically**
  - **fills in patron information**
  - **verifies that cost account is open**
  - **provides cost estimate**

- **A patron can use this service to obtain**
  - **a large number of copies**
  - **faster turnaround than local resources may allow**

- **Most printing options are preset**

- **The Xerox DocuTech (135 pages per minute) is used for printing**
  - **basic cost is 5.4 cents per unit (one single sided page or one side of a two sided page)**
  - **$15 minimum order**

LoF Order Printing Example

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

LoF order printing example

This example shows how to order printing of copies of a document through TID's Print Plant. **After reading these directions, click as shown below to begin the example.** On subsequent pages, do the following:

- Click on "Order printing"
- Fill in the various data items requested
- When you are finished exploring the order process, use your Web browser's "back up" feature to return to the "Print-on-demand through TID Print Plant" page

Click here to begin the example.

Order printing demo

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

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This is a special citation-action-page set up to demonstrate the "Order printing" capability. Your order will not be sent to the Print Plant, and your account will not be charged.

Title: Expedited demonstration of molten salt mixed waste treatment technology

Primary author(s): von Holtz, E H; Hopper, R W; Adamson, M G.

Report number: UCRL-ID-119720

Order printing demo

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

---

Title: Expedited demonstration of molten salt mixed waste treatment technology

Primary author(s): von Holtz, E H; Hopper, R W; Adamson, M G.

Report number: UCRL-ID-119720

Pages: 36

Date: February 2, 1995

- View this entire document as PDF (913 Kbytes)
- Order printing

For assistance

Last updated on March 23, 1995, by Tom Brengle

Order printing

Order printing for:

"Expedited demonstration of molten salt mixed waste treatment technology," von Holtz, E H; Hopper, R W; Adamson, M G. UCRL-ID-119720, February 2, 1995.

Accession Number: 225564

This service allows you to order printing of documents in this collection electronically through the TID Print Plant. However, we encourage you to print copies from your computer using the standard "Print" feature provided in Acrobat Reader. To do this, use Acrobat Reader to display the document at your computer, then select the "Print" from the "File" menu in Acrobat Reader. Click here to display the selected document at your computer.

Orders through the Print Plant will be charged $.054 per unit (a unit is either one single-sided copy, or one side of a two-sided copy), and will be printed on recycled white bond. There will be a small additional charge for documents with covers other than white bond. The minimum order is $15.00 (about 278 units). If you wish to pick up your order, we will call you when it is ready. If it is not picked up within 24 hours of our call, it will be sent to you. Orders totaling over 500 sheets (approximately 2 inches thick) cannot be sent by Lab mail, and will be delivered by Transportation.

Orders will be ready for pickup or delivery in 5 working days or less.

Order printing

Orders through the Print Plant will be charged $.054 per unit (a unit is either one single-sided copy, or one side of a two-sided copy), and will be printed on recycled white bond. There will be a small additional charge for documents with covers other than white bond. The minimum order is $15.00 (about 278 units). If you wish to pick up your order, we will call you when it is ready. If it is not picked up within 24 hours of our call, it will be sent to you. Orders totaling over 500 sheets (approximately 2 inches thick) cannot be sent by Lab mail, and will be delivered by Transportation.

Orders will be ready for pickup or delivery in 5 working days or less.

If you need further assistance, please call the Print Plant at ext. 4-6123.

Please provide the following information (only complete orders can be processed):

Empl. No.: 100900 Cost acct. no.: 9999-99 No. of copies: 15 Call for pickup? ☒

Submit order

Cancel order

Invalid cost account

| Back | Forward | Home | Reload | Images | Open | Print | Find | Stop |

The cost account you have specified does not seem to be valid. Could you please provide a valid cost account? Please remember to include the hyphen in the account number. Thank you.

Cost per copy of this document is $2.04. You are ordering 15 copies. **The total charge to your account will be $30.54.**

Name: `Tom Brengle`

Empl. No.: `100900`   Ext.: `28505`

Payroll acct. no.: `9543`   Cost acct. no.: `9999-95`

No. of copies: `15`   Call for pickup? ☒

L-`548`   Building: `B439`   Room: `R1001`

Email: `tom_brengle@quickmail.llnl.gov`

Submit order

Cancel order

If you need further assistance, please call the Print Plant at ext. 4-6123

Printing request submitted

Back | Forward | Home | Reload | Images | Open | Print | Find | Stop

Your printing request has been submitted.

Accession Number: 225564

Cost per copy of this document is $2.04. You are ordering 15 copies. **The total charge to your account will be $30.54.**

Orders will be ready for pickup or delivery in 5 working days or less.

If you need further assistance, please call the Print Plant at ext. 4-6123.

[**Return**]

QuickMail™

LoF Printing Request

Normal | FILE | PRINT | SAVE | DELETE | ENCL 1 | CLIP | REC | OFF RECPT | FWD | REPLY

```
FROM:tom_brengle@quickmail.llnl.gov (3/28/95)
   TO:Tom Brengle
   CC:
  BCC:
```

Mail*Link® SMTP | LoF Printing Request |

```
The enclosure is an Informed Manager import file for a
Library of the Future printing request.


------------------ RFC822 Header Follows ------------------
Received: by quickmail.llnl.gov with SMTP;28 Mar 1995 10:47:42 -0800
Received: from aisins.llnl.gov by pierce.llnl.gov
(8.6.10/LLNL-1.18/llnl.gov-03.95)
 id KAA25155; Tue, 28 Mar 1995 10:44:44 -0800
Received: (from root@localhost) by aisins.llnl.gov (8.6.10/llnl-lkn.1.5) id
KAA21815 for tom_brengle@quickmail.llnl.gov; Tue, 28 Mar 1995 10:45:25 -0800
Message-Id: <199503281845.KAA21815@aisins.llnl.gov>
Mime-Version: 1.0
```

Tom's PB180

Trash

LL230# v1.0 TID Version

Lawrence Livermore National Laboratory

No .

Information from Requester:

Empl. No:	Contact/Requeste

Alternate Contact

Document Title, Name or Number:

Each:

PRINT: ☐ ONE-SIDE ☐

PAPER STOCK DESIRED:
  ☐ RECYCLED WHITE BOND
  ☐ LETTERHEAD (INTERNAL
  ☐ NCR _____
  ☐ OTHER _____

COLLATE: ☐ YES ☐ NO

BINDING: ☐ SADDLE
  ☐ PERFECT BIND
  ☐ COMB BIND
  ☐ VELO BIND
  ☐ OTHER _____

▦ Desktop ▼

🖾 Tom's PB180	⬆	▭ Tom's PB180
📄 **LoF Printing Order Data**		
🗑 Trash		[Eject]
		[Desktop]
	⬇	

[**Import**]

[Cancel]

Data Format [**All available** ▼]

Import: ● **Selected file**
○ **All files in current folder/disk**

☐ *Repeat from floppy*

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1 Form   1 of 1   W 1

TID PRINT PLANT WORK ORDER

No. _____
Date: 3/28/95   Time: 10:45

Empl. No: 100900	Contact/Requester Tom Brengle		Phone: 422-8505	Account No: 9999-95	Date Due: 4/2/95

Alternate Contact:		Phone:	Payroll Acct. No: 9543	Classification: ☐ S ☐ C ☒ U _____

Document Title, Name or Number: ID-119720	Department:	No. of Originals: 36	Copies Each: 15

PRINT: ☐ ONE-SIDE ☒ HEAD-TO-HEAD ☐ HEAD-TO-FOOT

PAPER STOCK DESIRED:
☒ RECYCLED WHITE BOND
☐ LETTERHEAD (INTERNAL)   ☐ LETTERHEAD (EXTERNAL)
☐ NCR _____
☒ OTHER Cover - Green Bond

COLLATE: ☒ YES ☐ NO   **FOLD:** _____

BINDING:
☐ SADDLE
☐ PERFECT BIND
☐ COMB BIND
☐ VELO BIND
☐ OTHER _____

STAPLE:
☒ LEFT 2
☐ UPPER LEFT
☐ TOP 2

PAD:
☐ TOP   ☐ LEFT
SHEETS/PAD _____
☐ SHRINK WRAP

DRILL:
☐ 3 HOLES   ☐ 2 HOLES
☐ AT LEFT   ☐ AT TOP
☐ 3/8" DIAMETER   ☐ 1/4" DIAMETER

FINISHED SIZE: 8.5 x 11

ADDITIONAL SPECIFICATIONS/INSTRUCTIONS:
Accession number 225564
(estimated cost: $30.54)
(minimum charge: $15.00)

PRINT PLANT USE ONLY

TID Pub. Services:

Classified Receipt   ☐ Address Labels Enclosed

Incoming	Outgoing	L-658	OSTI, Oak Ridge

Color Auth: Initial _____ Date _____
D.O. Release: Initial _____ Date _____

CLASSIFIED:	Quantity	Initial	Initial
Books			
Originals			
Negatives			
Date			

Proof copy to Class. Coor. sent: _____ Returned: _____

STOCK RUN SIZE:		STRIPPING INFO:	GTO-ZP	TOK
Text _____		Inline	☐	☐
Cover _____		Perfecting	☐	
Spine _____		Step/Repeat	☐	☐

Proofed by Requester: _____ **Date:** _____

ADDITIONAL COSTS:	☐ SEE ATTACHED SHEET
Materials	**Labor** Reg. OT
Plate charge: _____	Stripping hrs: _____ _____
Stock charge: _____	PC/layout hrs: _____ _____
_____ _____	Press hrs: _____ _____
Total: _____	Bindery hrs: _____ _____

	Plates	Units		Date	Time
TOK			Completed		
GTO-ZP			Trans.		
DocuTech			Mail Room		
5775			Cust. Called		

Shipping Tag No. _____

Orig./Negs./Disk: send with job ☐   or send to: _____ at: _____

☒ **Call for Pickup** (Your job will be sent to you if not picked up within 24 hrs. of call)

To: Tom Brengle   Phone: 2-8505
Bldg: B439   Room: R1001   L- 548

Add'l Delivery Info: _____

From: TID Print Plant L-659
Bldg. 551-W Rm. 1550

No. _____

Institutional server

- **Controlled physical environment**

- **Automatic backup of information**

- **Limited access to change information**

- **Separate information access partitions**
    - **Publication Services only -> review & release**
    - **LLNL only**
    - **Open Internet**

Futures

- **Development of new information formats and storage media**

- **Assurance of the authenticity and integrity of electronic information**

- **Routine incorporation of digital multimedia information forms**

- **Probable disappearance of "batched" information**

- **Probable transformation of libraries into dynamic electronic information hubs**

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